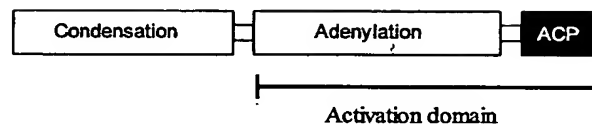


Figure 1: Module of a PPS and subdivision into functional domains

A: Minimal module of a PPS



B: Module with N-methyltransferase domain

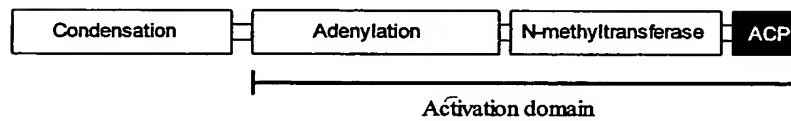
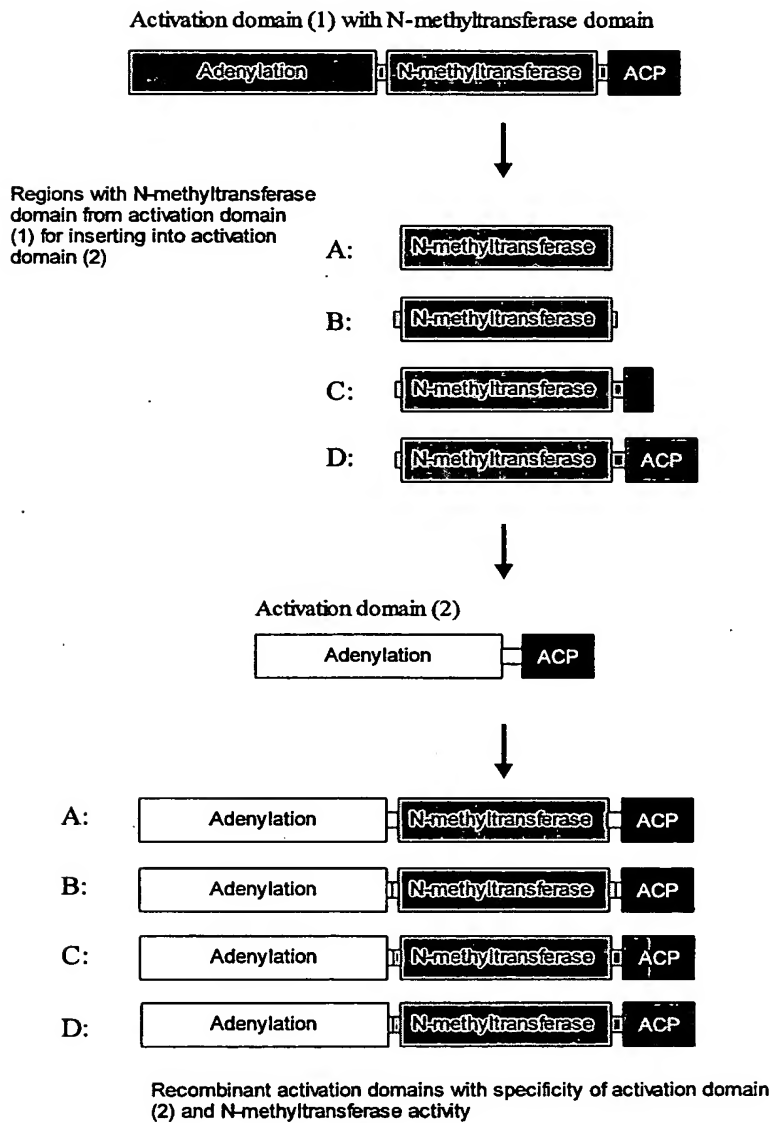


Figure 2: Conversion of activation domains by inserting a N-methyltransferase domain



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| | |
|-------------|---|
| CYS A | Cyclosporine Synthetase from Tolypocladium niveum (Z28382) |
| GRS A,B | Gramicidin S Synthetase I,II from Bacillus brevis (P14687/P14688) |
| ACM B,C | Actinomycin Synthetase II,III from Streptomyces chrysomallus (AF047717 and attached sequence) |
| BAC A,B,C | Bacitracin Synthetase A,B,C from Bacillus licheniformis (AF007865) |
| TYC A,B,C | Tyrocidin Synthetase I,II,III from Bacillus brevis (AF004835) |
| LIC A,B,C | Lichenysin Synthetase A,B,C from Bacillus licheniformis (U95370) |
| ESYN | Enniatin Synthetase from Fusarium scirpi (Z18755: Update year 2000) |
| SNB C,D | Pristinamycin I Synthetase C,D from Streptomyces pristinaespiralis (Q54959,X98690) |
| SRF 1,2,3 | Surfactin Synthetase 1,2,3 from Bacillus subtilis (P27206,Q04747,Q08787) |
| PPS 1,2,3,4 | Fengycin Synthetase 1,2,3,4 from Bacillus subtilis (Z34883) |

The index following the name designates the number of the activation domain within the corresponding PPS (started from the N-terminus). The data base numbers of the sequences in "GenBank" or "SwissProt" are given in parenthesis.

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Figure 4: Starting plasmids for the construction according to the Examples

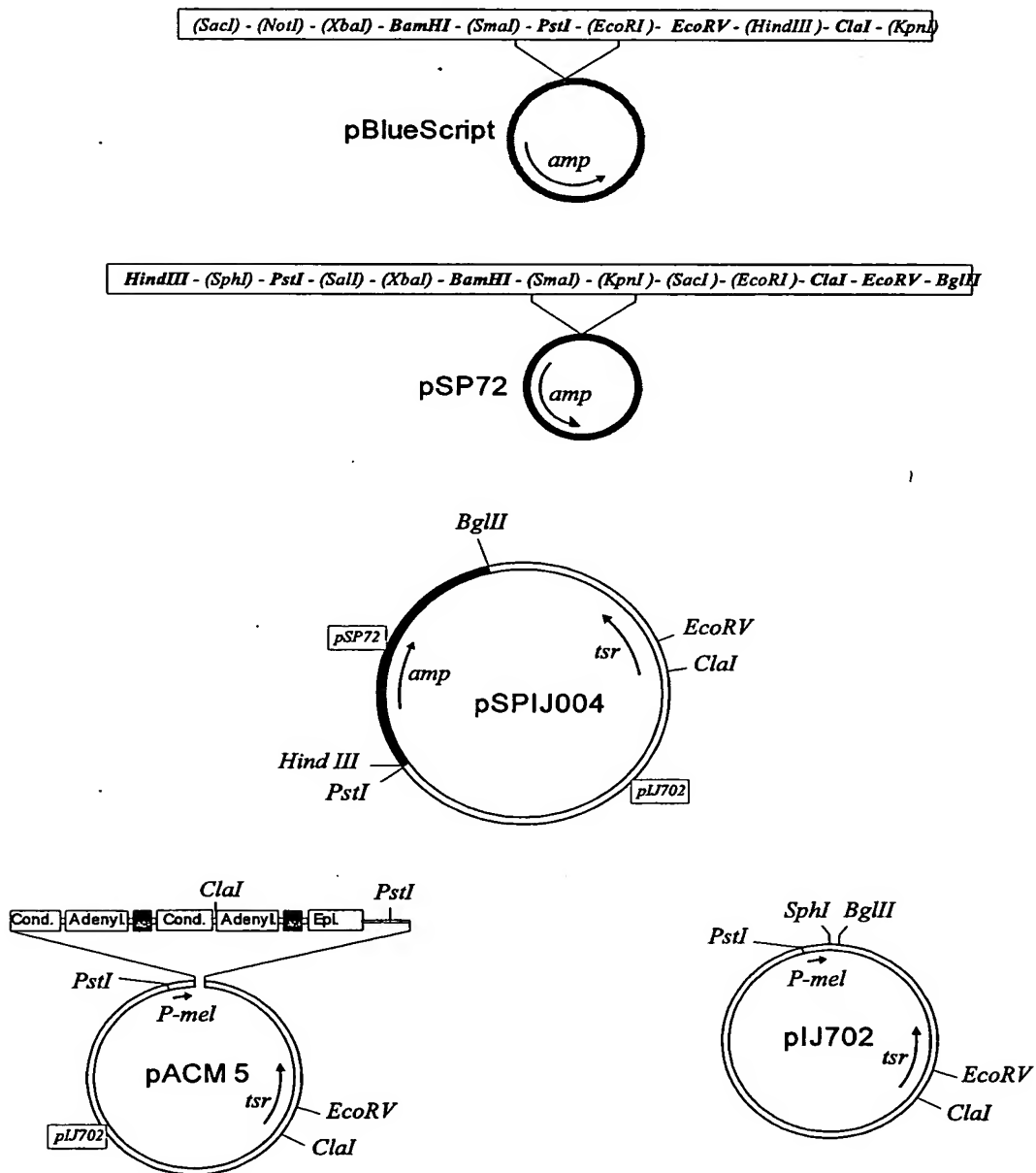
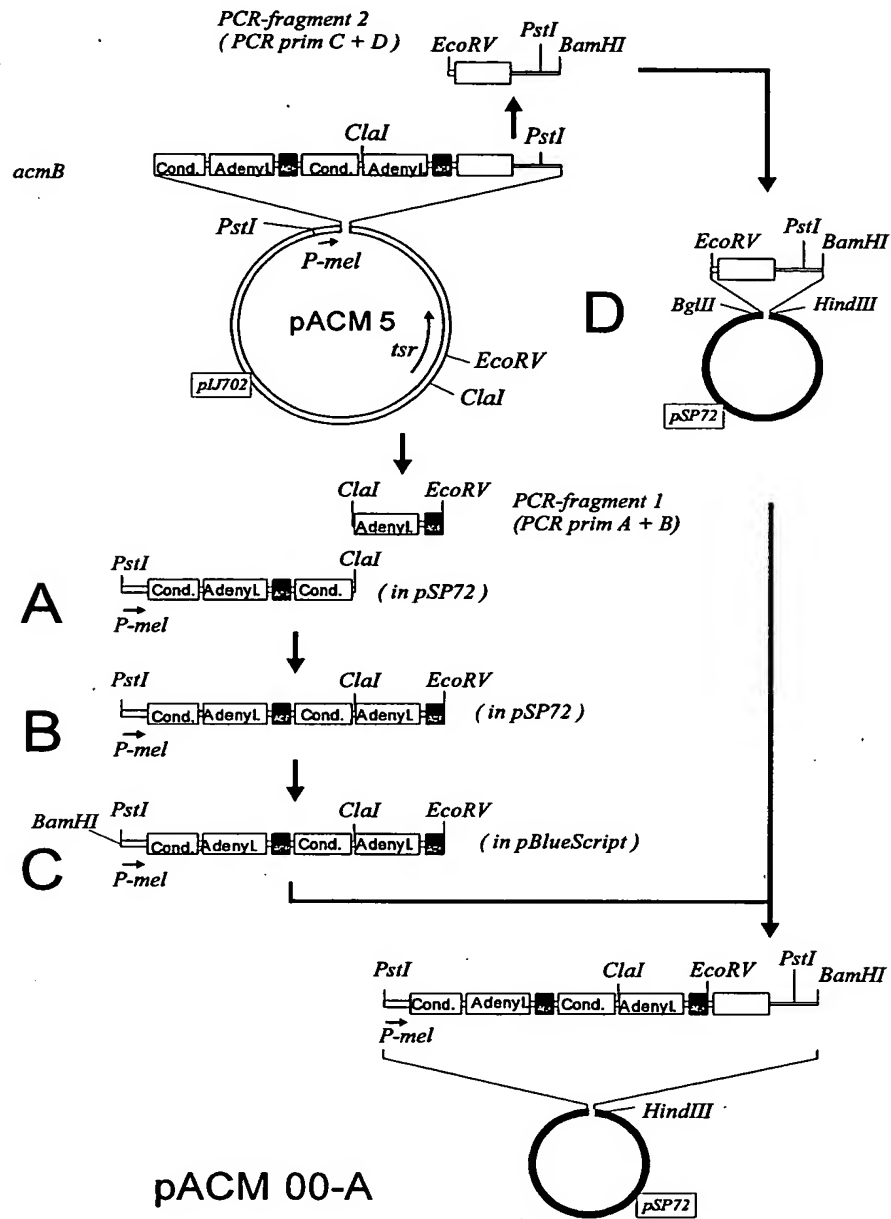


Figure 5: Introduction of an *EcoRV* restriction site into *acmB*



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Figure 6: Cloning of *ClaI*-*EcoRV* cassettes for the construction of recombinant *acmB* genes

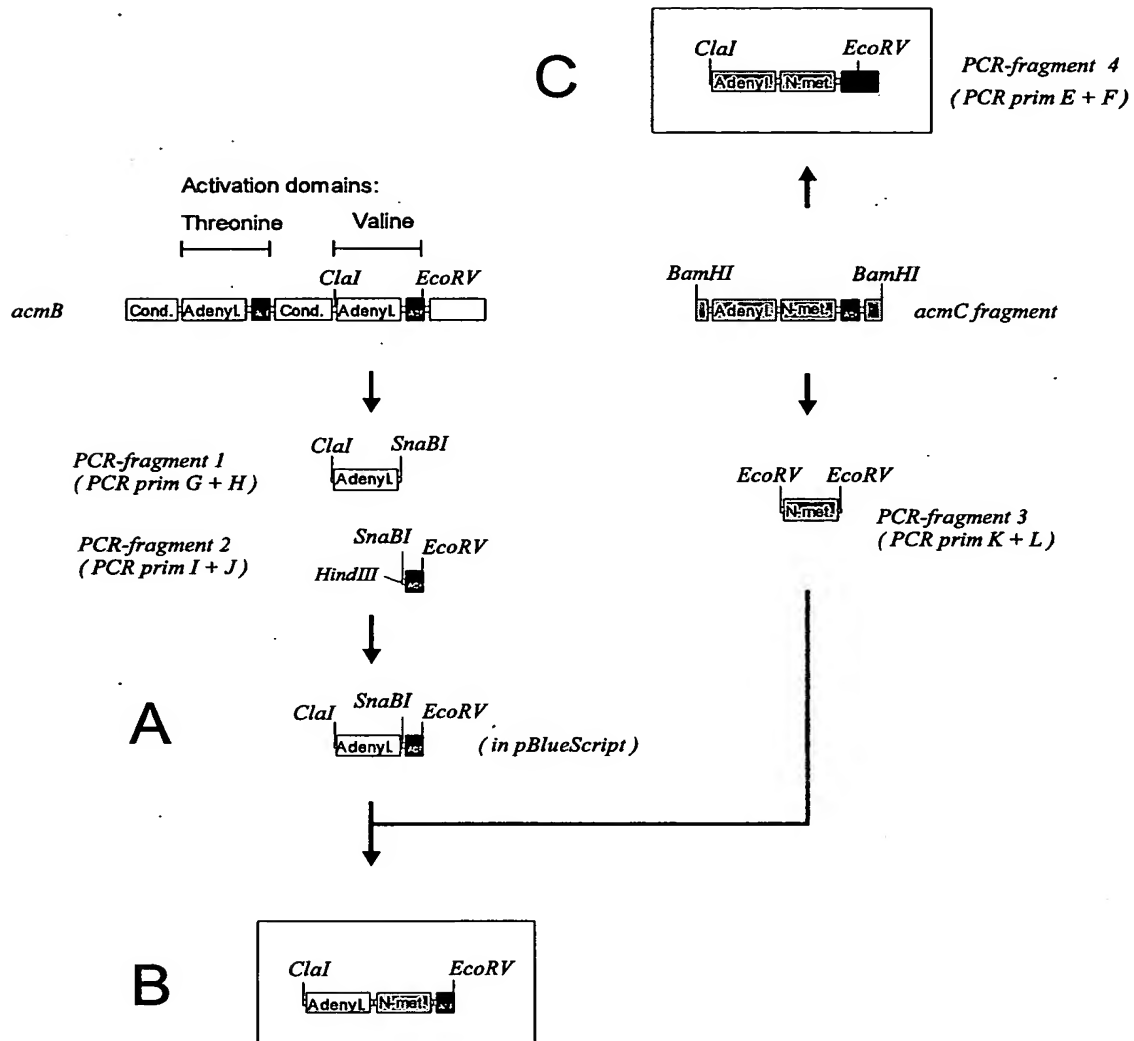


Figure 7: Plasmids for expression of the recombinant PPS genes

